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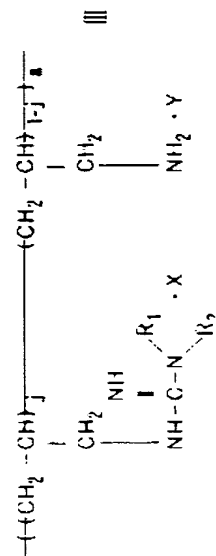
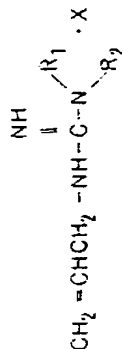
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TITLE : GUANIDINE GROUP-CONTAINING
POLYMER AND PRODUCTION
THEREOF



ABSTRACT : PURPOSE: To industrially and advantageously produce a novel polymer useful as a germicide, high-polymer medicine, paper treating agent, flocculant, etc., at a low cost, by polymerizing a specific guanidine derivative in the presence of a polymerization initiator.

CONSTITUTION: A guanidine group-containing polymer, obtained by polymerizing a guanidine derivative expressed by formula I (R_1 and R_2 are H, 1~18C alkyl, alkoxy carbonylalkylene, alkylencarboxylic acid or 6~8C aryl; X is inorganic or organic group) alone or together with an allylamine expressed by formula II in the presence of a polymerization initiator having azo group and nitrogen-atom-containing group which is cationic or capable of forming cation in the molecule, e.g. 2,2'-diamidinyl-2,2'-azopropane hydrochloride, etc., and, as necessary, reacting the resultant polymer with an acid and containing guanidine group expressed by formula III (Y may be absent and indicates acid; $m \geq 10$; $0 < j \leq 1$).

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